

What is claimed is:

1. An object lens system arranged to face an optical disc, collect light and irradiate the light onto the optical disc, comprising:

a direction changing means for changing a moving direction of incident light to an orthogonal direction thereof and emitting it onto the optical disc, the direction changing means being provided with a hologram on one side surface thereof; and

a solid lens disposed in front of an incident surface of the direction changing means.

2. An object lens system of Claim 1, further comprising an optical pick-up apparatus capable of emitting light onto the object lens system and detecting the intensity of reflected light obtained by an optical disc.

3. An object lens system according to Claim 1, wherein:

the direction changing means is a triangular prism that has an incident surface, a reflecting surface and an emitting surface; and

the hologram is formed on the emitting surface of the triangular prism.

4. An object lens system of Claim 3, further comprising an optical pick-up apparatus to emit light onto the object lens system and detect the intensity of reflected light obtained by an optical disc.

5. An object lens system according to Claim 3, wherein:

the triangular prism is provided on the incident surface thereof with a second concave surface that causes the incident light to diverge in a direction orthogonal to the optical disc;

the triangular prism is provided on the emitting surface thereof with a first concave surface that converges the diverging incident light; and

the triangular prism is provided on the first concave surface thereof with the hologram.

6. The object lens system of Claim 5, further comprising an optical pick-up apparatus to emit light onto the object lens system and detect the intensity of reflected light obtained by an optical disc.

7. An object lens system according to Claim 1, wherein the solid lens is a convex lens that is disposed in front of the incident surface of the direction changing means.

8. An object lens system according to Claim 7, further comprising an optical pick-up apparatus to emit light onto the object lens system and detect the intensity of reflected light obtained by an optical disc.

9. An object lens system according to Claim 1, wherein the hologram is formed of light transparent materials.

10. An object lens system according to Claim 9, further comprising an optical pick-up apparatus to emit light onto the object lens system and detect the intensity of reflected light obtained by an optical disc.

11. An object lens system arranged to face an optical disc, collect light and irradiate the light onto the optical disc, comprising:

a direction changing means for changing a moving direction of incident light to an orthogonal direction thereof and emitting it onto the optical disc;

a hologram unit disposed in front of the direction changing means and provided with a hologram; and

a solid lens disposed between the direction changing means and the optical disc.

12. An object lens system according to Claim 11, further comprising an optical pick-up apparatus to emit light onto the object lens system and detect the intensity of reflected light obtained by an optical disc.

13. An object lens system according to Claim 11, wherein the direction changing means is a beam splitter.

14. An object lens system according to Claim 13, further comprising an optical pick-up apparatus to emit light onto the object lens system and detect the intensity of reflected light obtained by an optical disc.

15. An object lens system according to Claim 11, wherein the hologram is formed of light transparent materials.

16. An object lens system according to Claim 15, further comprising an optical pick-up apparatus provided with the object lens system of Claim 15 to emit light onto the object lens system and detect the intensity of reflected light obtained by an optical disc.